

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04140

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B23K9/12, B23K9/095

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B23K9/12, B23K9/095

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-58007 A (Yaskawa Electric Corp.), 02 March, 1999 (02.03.99), Column 5 & WO 99/07511 A1	1-3
A	JP 11-314156 A (Daido Steel Co., Ltd.), 16 November, 1999 (16.11.99), Fig. 7 (Family: none)	1-3



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:
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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search
15 July, 2003 (15.07.03)

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12 August, 2003 (12.08.03)

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Japanese Patent Office

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